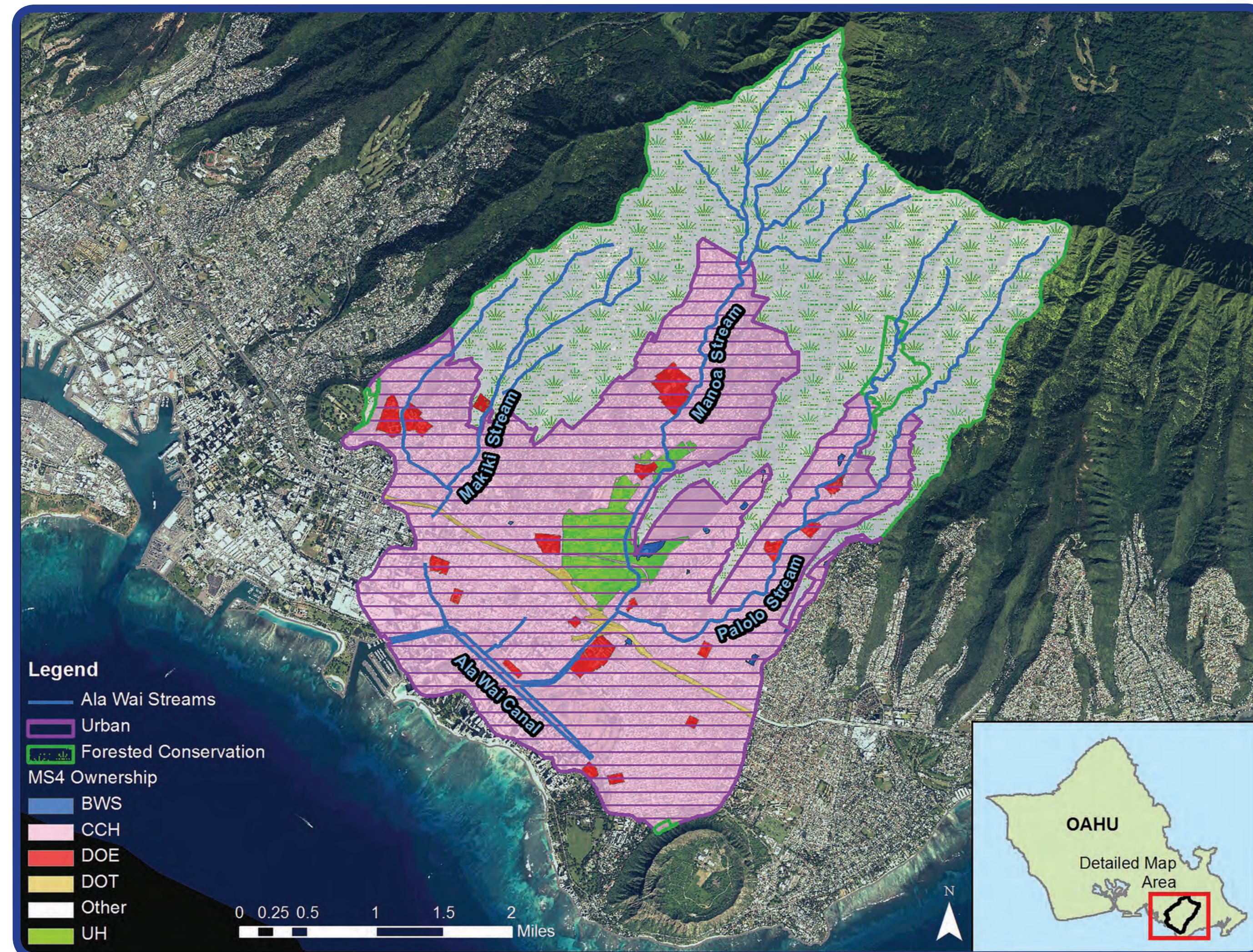


Protecting Waters of the Ala Wai Using Low Impact Development

ALA WAI WATERSHED

The Ala Wai watershed encompasses waters from the Makiki, Manoa, Ala Moana-McCully, St. Louis-Kapahulu-Diamond Head and Palolo areas. Water from these areas are conveyed to the Ala Wai canal through a series of pipes, inlets, and catch basins; perennial streams and canals, which ultimately discharge into the ocean at Ala Wai Harbor.



THREATS TO THE HEALTH OF THE ALA WAI AND OTHER WATERSHEDS:

- **Nutrients (Nitrogen & Phosphorus)** — conservation lands, urban pollution and fertilizers
- **Suspended Solids (Sediment)** — erosion
- **Trash** — improper disposal of waste / litter
- **Bacteria** — pet and other waste products
- **Pesticides** — over application, historical practices
- **Metals** — tires and brake pads

HOW THE CITY PROTECTS YOUR WATER:

- Tree debris and sediment removal from storm drain system
- Debris/trash removal and maintenance of City owned streams, channels and canals.

- Erosion control projects
 - Grassing and irrigating exposed soil areas on City properties
- Offers household hazardous waste (and other) recycling for residents
- Street sweeping
- Low Impact Development (LID) Projects

The City and County of Honolulu's improvements to the Ala Wai Golf Course included the installation of post construction treatment control Best Management Practices (BMPs), which is aimed at improving water quality in the Ala Wai canal.

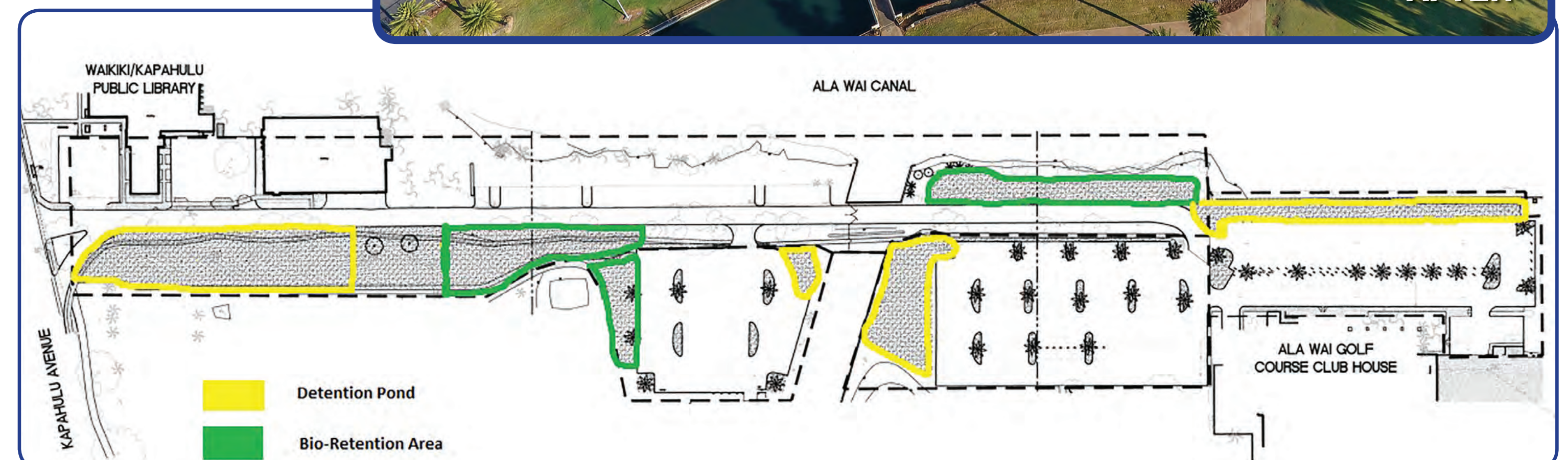
GOLF COURSE

The City and County of Honolulu re-grassed and installed a new irrigation system at bare areas throughout the golf course in order to reduce erosion and keep sediment/pollutants from being discharged into the Ala Wai canal.



Access Road and Parking Lot

The treatment controls for the golf course access road and parking lots will consist of both retention and detention basins. The basins (4 detention and 3 retention) will be used to retain/detain storm water runoff from the access road, parking lots as well as other paved and unpaved areas on site.



In addition, rain gardens will be installed at Ala Wai Community & Neighborhood parks.

How you can help:

- **Stash Your Trash** — Proper trash disposal includes keeping bin lids closed, bagging and tying, and picking up litter.
- **Contain the Rain** — Installing rain barrels, rain gardens, permeable pavers, and/or diverting rain spouts to landscaped areas helps to limit the amount of polluted water, reduces erosion from increased flow, and helps to recharge drinking water.

DRIVING RANGE

The City and County of Honolulu has installed two large detention basins in the Ala Wai Golf Course Driving Range. These basins, one at the northern end and one at the southern end of the range, will be used to detain storm water runoff, allowing sediment and other pollutants to settle out of suspension and be retained on site. This reduces the amount of pollutants leaving the site and going into the Ala Wai Canal.



- **Un-clutter Street Gutters** — Trash and plant debris from street gutters significantly increases the chances of clogged drains and flooding. Help protect your neighborhood by maintaining the sidewalks and gutters fronting your property.

Visit www.cleanwaterhonolulu.com to learn how you can protect our waters.

